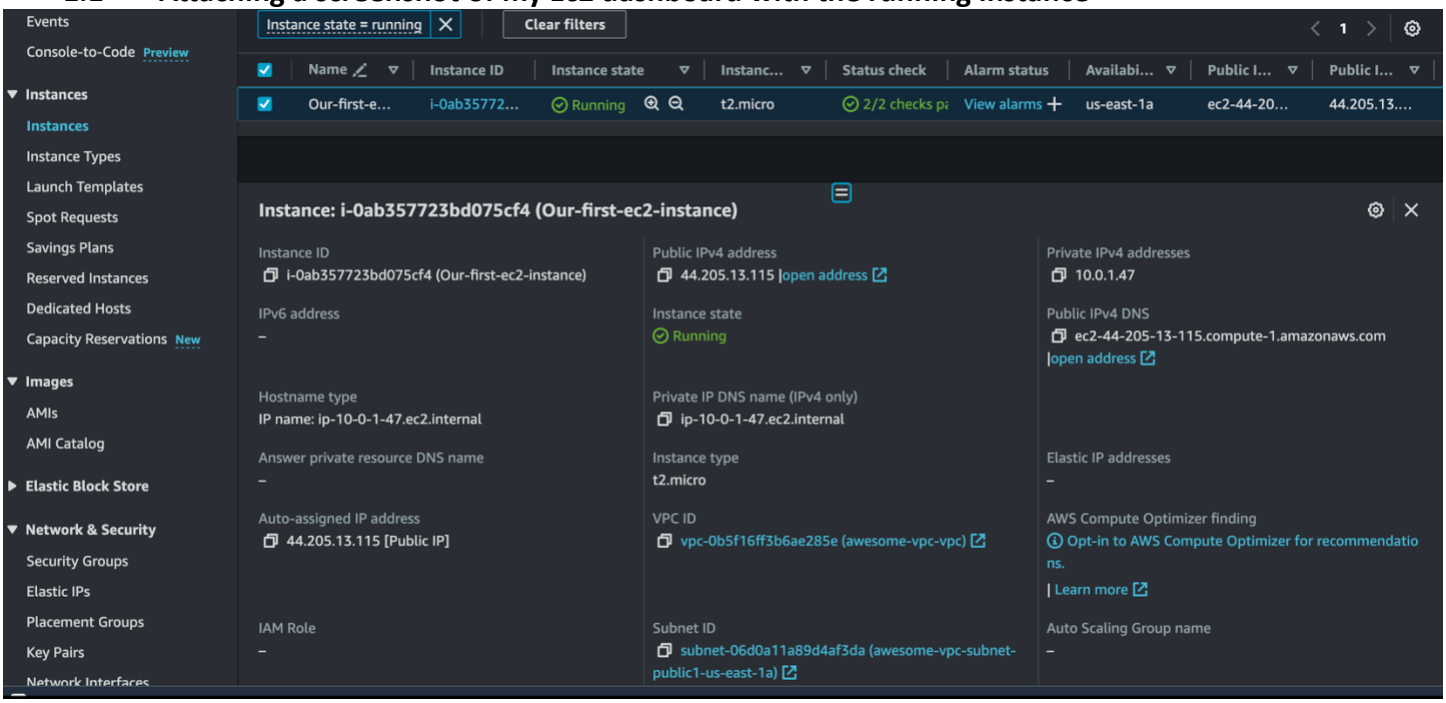
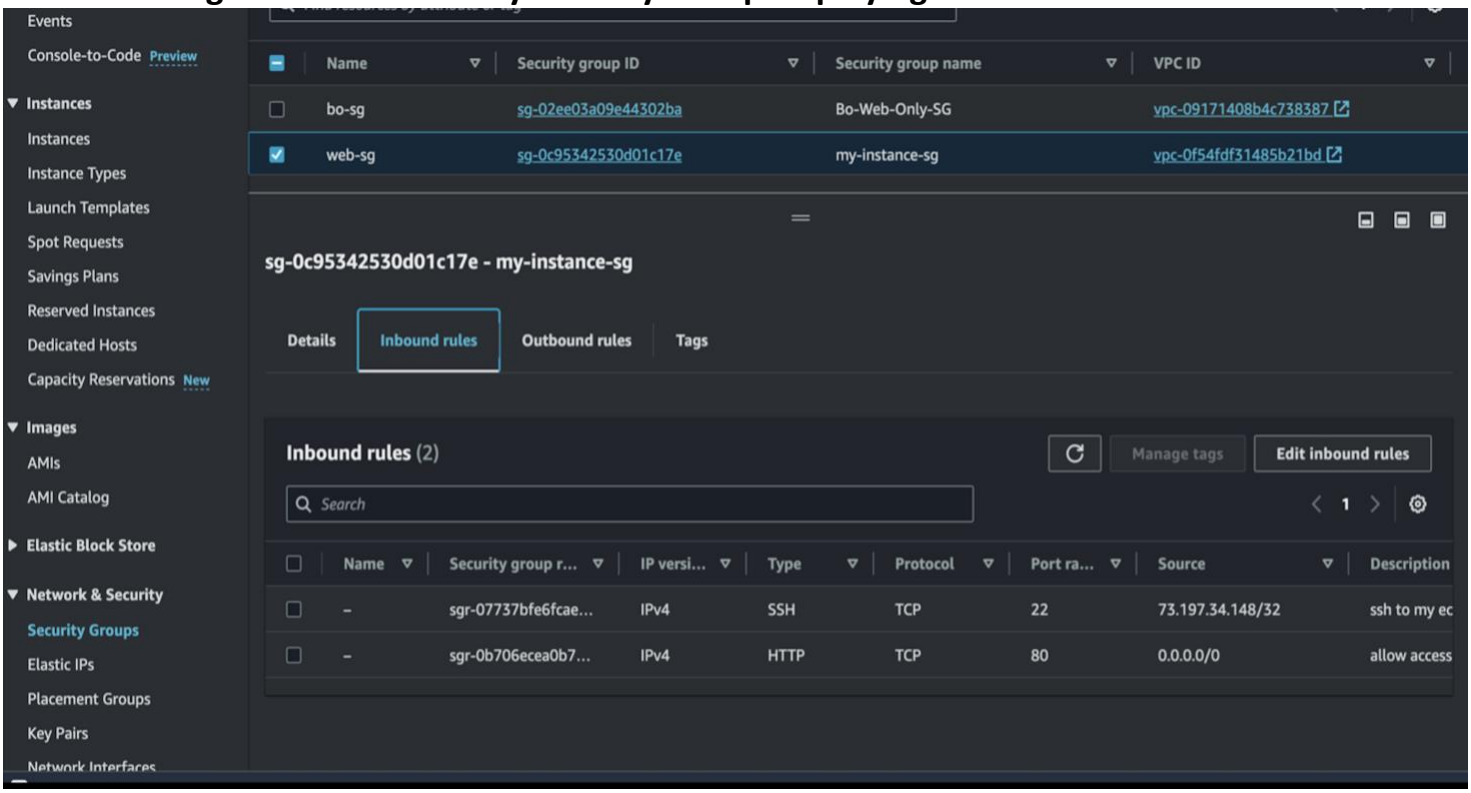
Cloud Computing part-3 projects
Name: BO lontum

project1

1.1- Attaching a screenshot of my Ec2 dashboard with the running instance



1.2. Attaching a screenshot of my Security Group displaying all the rules.



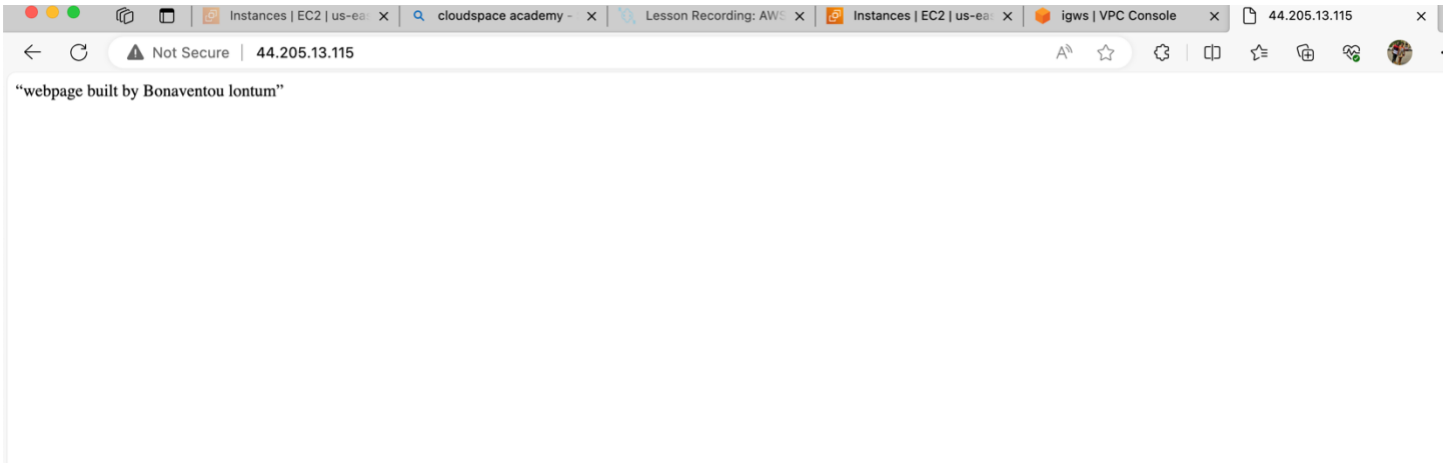
project-2

2.1 – Screenshot for output of output of hostnamectl command

```
users-MacBook-Pro:~ user$ ls
Applications            Library                 awesome-key-east1.pem
Bo-Ec2-key.pem          Movies                  bo-key-peer1.pem
Desktop                 Music                   bona.pem
Documents               Pictures                my-ec2key.pem
Downloads               Public
users-MacBook-Pro:~ user$ chmod 400 "awesome-key-east1.pem"
users-MacBook-Pro:~ user$ ssh -i "awesome-key-east1.pem" ec2-user@ec2-44-205-13-115.compute-1.amazonaws.com
The authenticity of host 'ec2-44-205-13-115.compute-1.amazonaws.com (44.205.13.115)' can't be established.
ED25519 key fingerprint is SHA256:Xxs8mmA5Xu4j/Yp7RySyVm9vu7yU2l/xxUBHxlhWnuk.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-44-205-13-115.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-10-0-1-47 ~]$ hostnamectl
 Static hostname: ip-10-0-1-47.ec2.internal
       Icon name: computer-vm
         Chassis: vm
      Machine ID: 336ed4cd87044bed806357d50de9a257
         Boot ID: 967f323b30c74799bdf41ef8608761a0
  Virtualization: xen
Operating System: Amazon Linux 2023
     CPE OS Name: cpe:2.3:o:amazon:amazon_linux:2023
          Kernel: Linux 6.1.77-99.164.amzn2023.x86_64
    Architecture: x86-64
 Hardware Vendor: Xen
  Hardware Model: HVM domU
Firmware Version: 4.11.amazon
[ec2-user@ip-10-0-1-47 ~]$
```

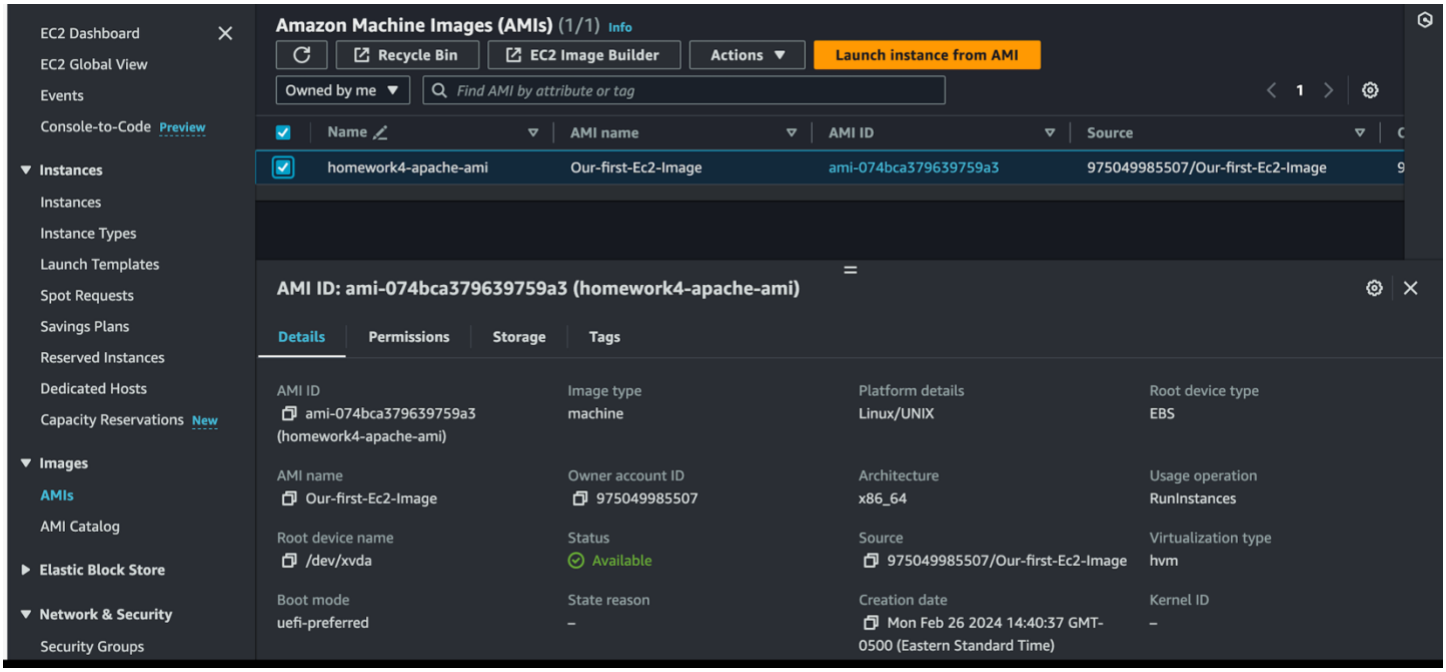
project 3

1.2 Display the Webpage built by student name Bonaventou

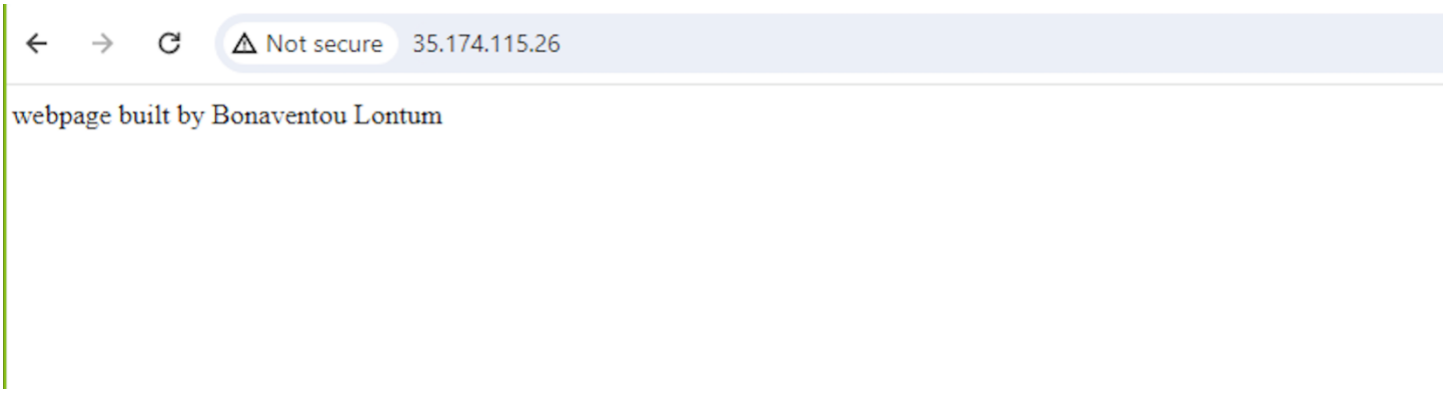


project 4:

4.1- Launching an EC2 instance using the AMI created in the previous step.

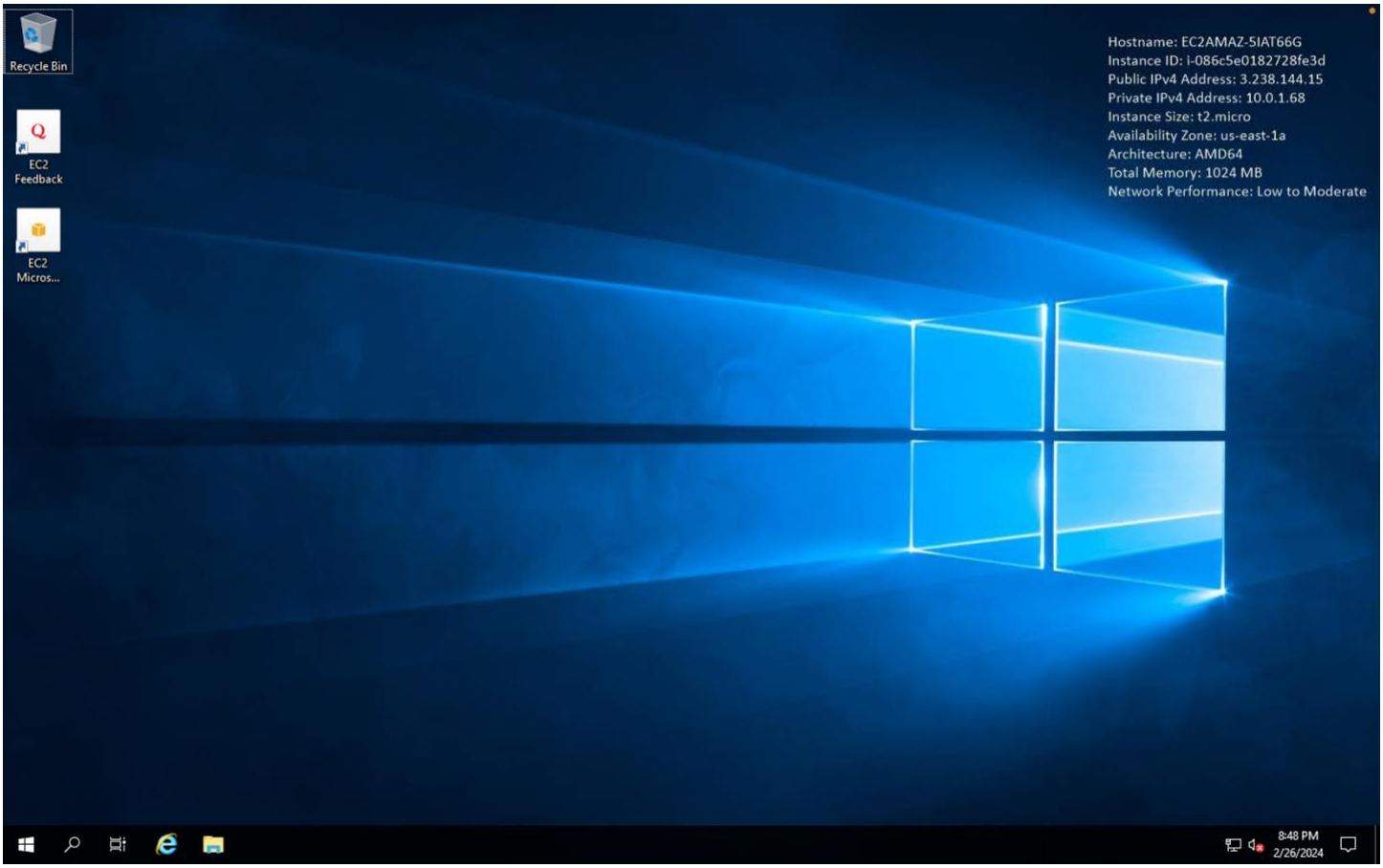


4.2- make sure you peer launch a new EC2 instance using the shared AMI(from my Peer)



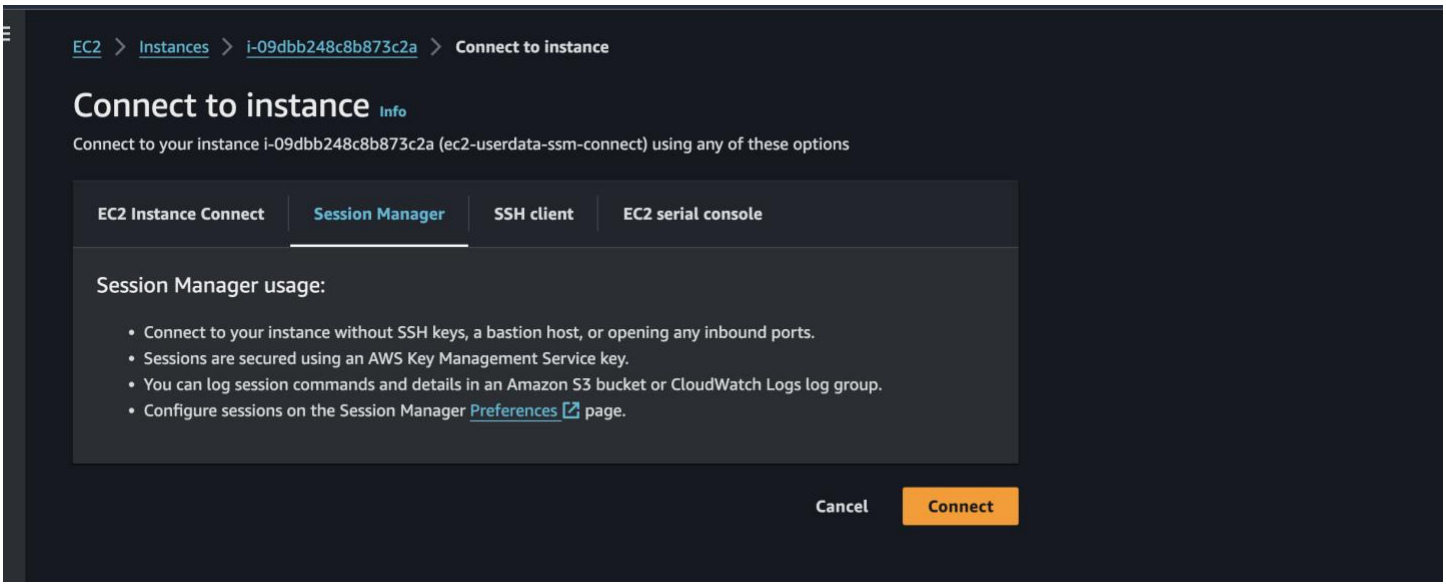
Project 5:

5.1- Posting a screenshot of the Windows Server landing page after successful authentication

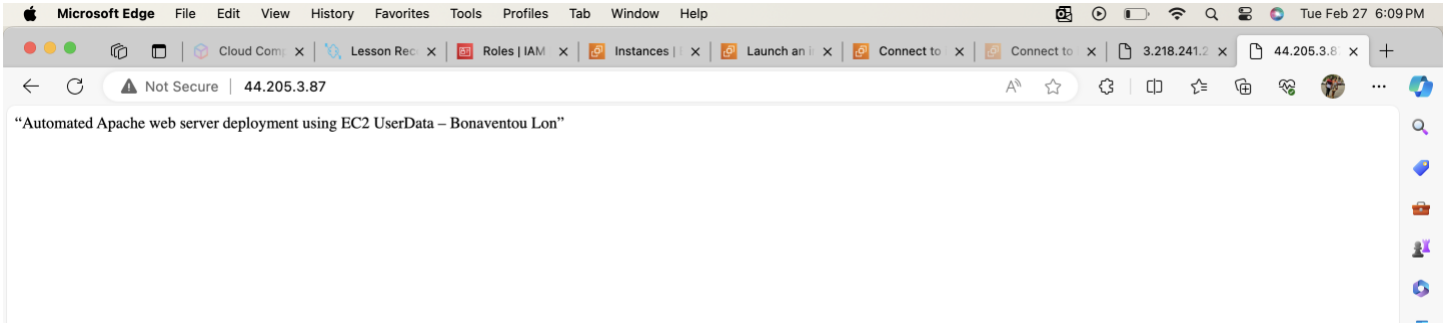


project 6: - User Data

6.1- Make sure to attach an SSM role at launch that will allow you to login into the instance within your browser



- **6.1-** Take screenshots, replace **Student name** by your name



project 7: AWS CLI

7.1- Posting a screenshot of the CLI commands for launching EC2 instance. Attach your

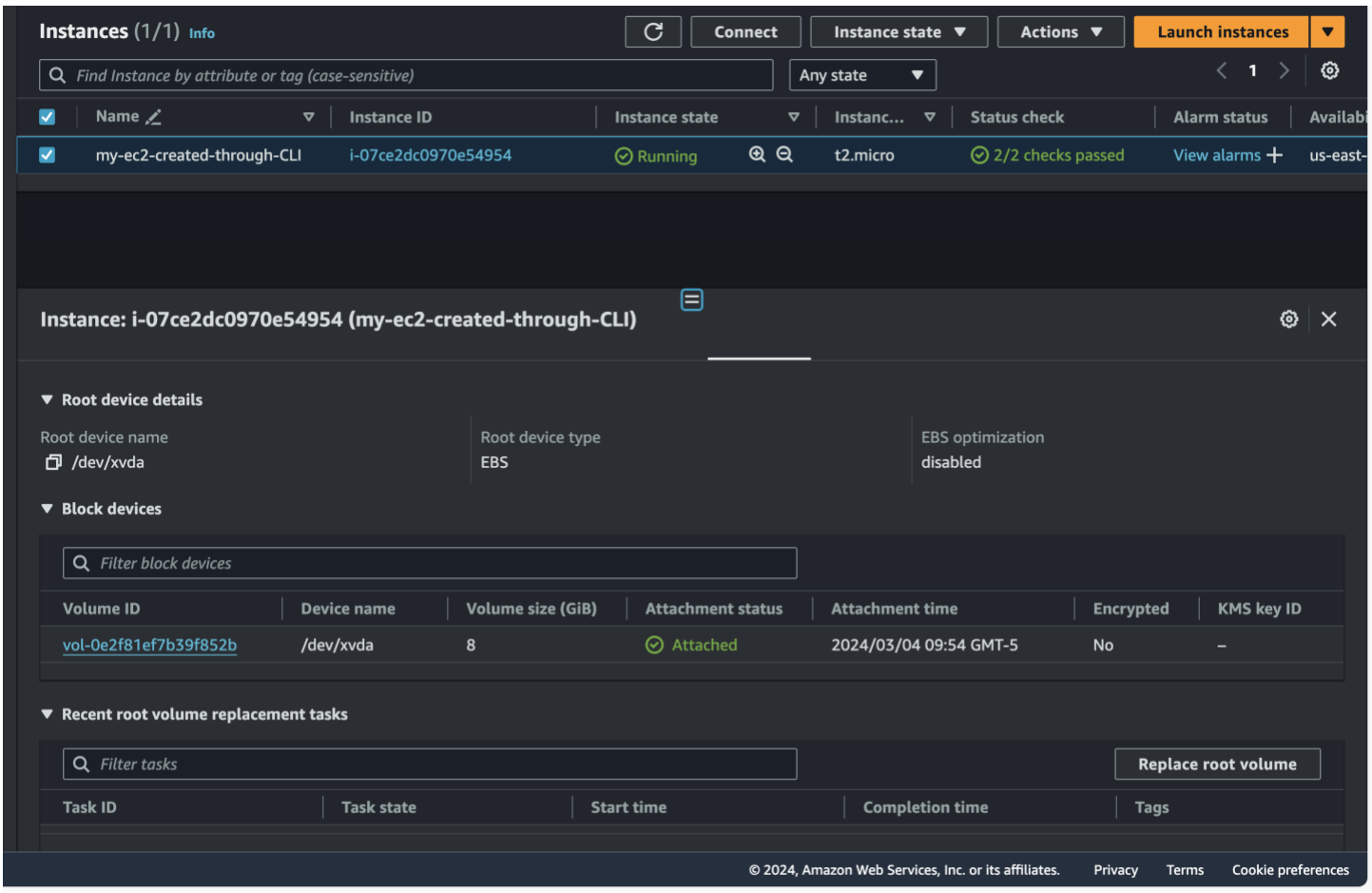

```
                {
                    "Key": "Name",
                    "Value": "my-ec2-created-through-CLI"
                }
            ],
            "VirtualizationType": "hvm",
            "CpuOptions": {
                "CoreCount": 1,
                "ThreadsPerCore": 1
            },
            "CapacityReservationSpecification": {
                "CapacityReservationPreference": "open"
            },
            "MetadataOptions": {
                "State": "pending",
                "HttpTokens": "required",
                "HttpPutResponseHopLimit": 2,
                "HttpEndpoint": "enabled",
                "HttpProtocolIpv6": "disabled",
                "InstanceMetadataTags": "disabled"
            },
            "EnclaveOptions": {
                "Enabled": false
            },
            "BootMode": "uefi-preferred",
            "PrivateDnsNameOptions": {
                "HostnameType": "ip-name",
                "EnableResourceNameDnsARecord": false,
                "EnableResourceNameDnsAAAARecord": false
            },
            "MaintenanceOptions": {
                "AutoRecovery": "default"
            },
            "CurrentInstanceBootMode": "legacy-bios"
        }
    ],
    "OwnerId": "975049985507",
    "ReservationId": "r-04215573c001fcd86"
}
users-MBP:~ user$
```

7.2- Posting a screenshot of the CLI commands for terminating the EC2 instance.

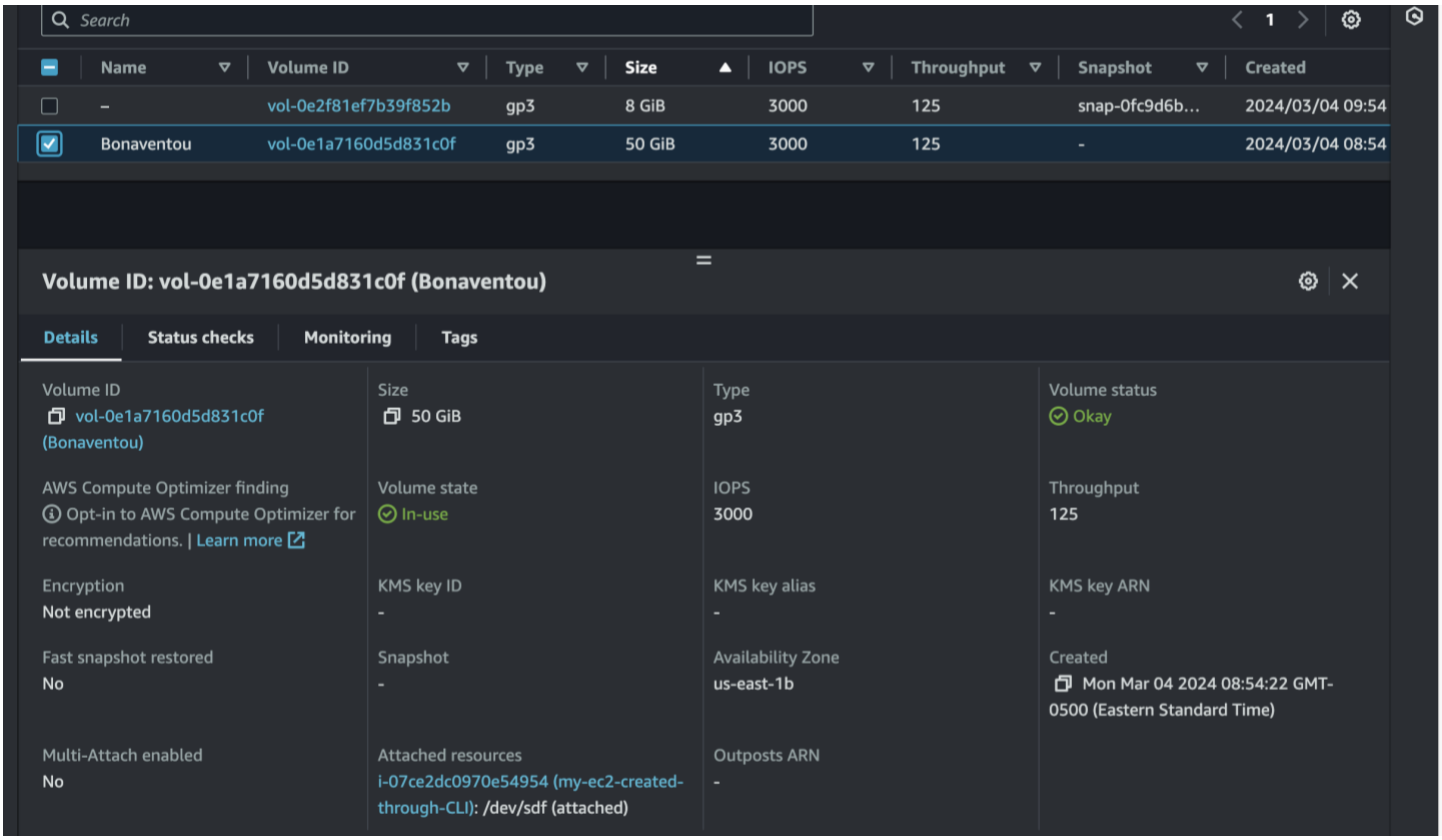
```
            },
            "EnclaveOptions": {
                "Enabled": false
            },
users-MBP:~ user$ aws ec2 terminate-instances --instance-ids i-08ff0d5709d9b5012 --region us-east-1
{
    "TerminatingInstances": [
        {
            "CurrentState": {
                "Code": 48,
                "Name": "terminated"
            },
            "InstanceId": "i-08ff0d5709d9b5012",
            "PreviousState": {
                "Code": 48,
                "Name": "terminated"
            }
        }
    ]
}
users-MBP:~ user$
```

Project 8: EBS & SNAPSHOT

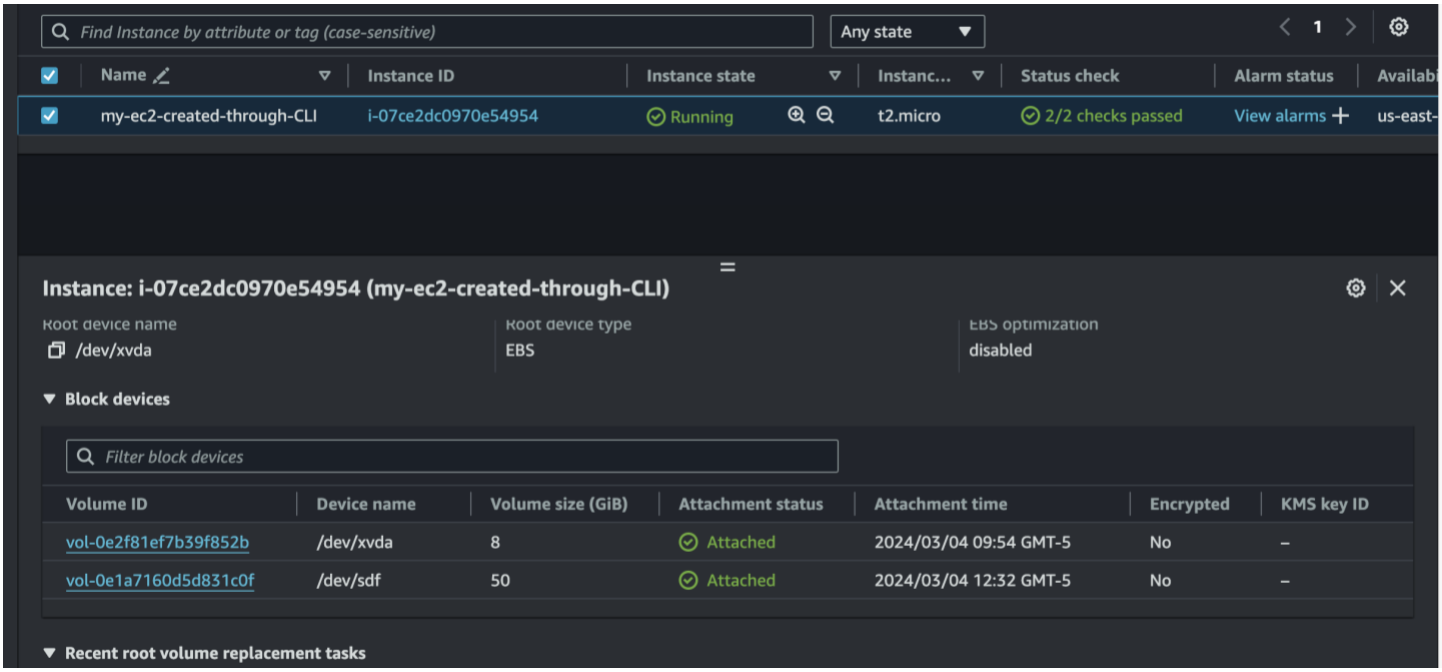
8.2- Taking a snapshot of the Root Volume



8.3- Creating a new Volume (tag “**Bonaventou**”, size 50 GB) in the same Availability Zone (AZ) as the EC2 instance.



8.4- Attach the new volume to the EC2 created in step 1. Take a screenshot showing both Volumes in the console



8.5- login to the EC2 instance and run the command “lsblk”. Take a screenshot showing both Volumes size